



SAFETY DATA SHEET

Issue Date: 22-Jun-2017

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Version: 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: SureKill® Advanced Insecticide Products Total Release Aerosol
EPA Registration Number: 1021-1635-47000

Other means of identification

Recommended use of the chemical and restrictions on use:

Recommended Use: A Liquefied Aerosol Insecticide Spray.

Details of the supplier of the safety data sheet

Manufactured For:

Chem-Tech, Ltd.
1006 Business Hwy 5
Pleasantville, IA 50225 U.S.A.

*Chem-Tech Ltd. is a wholly-owned subsidiary
of Neogen Corporation*

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300
International: (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to
(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Environment: OSHA has not adopted the environmental - portion of the GHS regulations, however, this SDS may include information on environmental effects.

Classification:

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| | |
|---|---------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Flammable aerosol | Category 2 |
| Gases under pressure | Liquefied gas |

Label elements

Emergency Overview

WARNING

Hazard statements

- H332 - Harmful if inhaled

- H280 - Contains gas under pressure; may explode if heated
- H223 - Flammable aerosol
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects



Appearance: Milky white (Aerosol Non-volatiles)

Physical state: Aerosol - Compressed liquefied gas.

Odor Solvent

Precautionary Statements - Prevention:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements - Response:

- P321 - Specific treatment (see Section 4/ First Aid).
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Storage:

- P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P411 - Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal:

- P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

Not applicable

3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|---|------------|----------|
| Pyrethrins | 8003-34-7 | 0.050 |
| Piperonyl Butoxide (PBO) | 51-03-6 | 0.10 |
| MGK®-264 Insecticide Synergist (n-Octyl bicycloheptene dicarboximide) | 113-48-4 | 0.16 |
| Esfenvalerate | 66230-04-4 | 0.10 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | < 10 * |
| Propane | 74-98-6 | 15 |
| Isobutane | 75-28-5 | 20 |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Aspiration pneumonia hazard: • No information available

Description of first aid measures:

| | |
|--|--|
| Eye contact: | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. |
| Skin Contact: | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |
| Ingestion: | If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person. |
| Inhalation: | Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |
| Self-protection of the First Responder: | Remove all sources of ignition. Use personal protective equipment as required. |
| Note to physicians: | For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E). |

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Hydrogen cyanide, Carbon monoxide, Carbon dioxide (CO₂).

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

In the event of fire and/or explosion do not breathe fumes.

| | | | | |
|-------------|--------------------------|-----------------------|---------------------------|---|
| NFPA | Health hazards 2 | Flammability 3 | Instability 0 | Physical and Chemical Properties |
| HMIS | Health hazards 1* | Flammability 4 | Physical hazards 0 | Personal protection |
| | | | | X |

Chronic Hazard Star Legend * = Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal precautions:** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required.
- Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

- Methods for containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
- Methods for cleaning up:** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

- Advice on safe handling:** Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. For more information, see product label.

Conditions for safe storage, including any incompatibilities

- Storage Conditions:** Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

- Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Supplier OEL |
|--|--|--|--|--|
| Pyrethrins 8003-34-7 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³ | IDLH: 5000 mg/m ³ TWA: 5 mg/m ³ | - |
| Petroleum distillates, hydrotreated light 64742-47-8 | - | - | - | TWA: 100 ppm TWA: 525 mg/m ³ |
| Propane 74-98-6 | : See Appendix F: Minimal Oxygen Content, explosion hazard | TWA: 1000 ppm TWA: 1800 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m ³ | IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ | - |
| Isobutane | STEL: 1000 ppm explosion | - | TWA: 800 ppm | - |

| | | | | |
|---------|--------|--|-----------------------------|--|
| 75-28-5 | hazard | | TWA: 1900 mg/m ³ | |
|---------|--------|--|-----------------------------|--|

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls: Safety showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Protective eyewear is recommended, but is not required.

Skin and body protection: Protective gloves are recommended, but are not required.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Aerosol - Compressed liquefied gas.
Appearance: Milky white (Aerosol Non-volatiles)
Odor Solvent
Odor threshold: No information available
Color (Gardner Scale): No information available

Property:
pH:

Values:
7.2

Comment: • Method
@ 5% in H₂O. Test was performed on aerosol Non-Volatile's. .

Melting point / freezing point: No information available
Boiling point / boiling range: No information available
Flash point: > 93.3 °C / > 200.0 °F

Tag Closed Cup; Test was performed on aerosol Non-Volatile's;

Evaporation rate: No information available
Flammability (solid, gas): No information available
Upper flammability limit (UEL): No information available
Lower flammability limit (LEL): No information available
Vapor pressure: No information available
Vapor density: No information available
Specific Gravity: No information available
Water solubility: No information available
Partition coefficient; n-Octanol/
Water: No information available
Autoignition temperature: No information available

| | | |
|-----------------------------------|--------------------------|---|
| Decomposition temperature: | No information available | |
| Kinematic viscosity: | No information available | |
| Dynamic viscosity: | 930 cPs @ 21.9°C. | Test was performed on aerosol Non-Volatile's. |
| Refractive Index: | No information available | |

Other Information:

| | |
|-------------------------|---|
| Density: | 0.970 g/cm ³ @ 22.3 °C (Aerosol Non-volatiles) |
| VOC Content (%): | 35.2 |

Miscibility/ Solubility:

| | |
|-------------------------------|--------------------|
| Water: | Partially miscible |
| Alcohol | Partially miscible |
| Aromatic solvents: | Partially miscible |
| Petroleum distillates: | Partially miscible |

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition ProductsHydrogen cyanide, Carbon monoxide, Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

| | |
|-----------------------------------|--|
| Oral LD₅₀ | >5,000 mg/kg (rat) |
| Dermal LD₅₀ | >2,000 mg/kg (rabbit) |
| Inhalation LC₅₀ | >3.03 mg/L, (rat; 4 hours) |
| Eye contact: | Irritation clearing in 24 hours. (rabbit). |
| Skin Contact: | Slight irritation at 72 hours. (rabbit). |
| Skin Irritation Index: | 0.84 |

Sensitization: Negative. (guinea pig).

Comment: Toxicology data was bridged from a similar formula.

Piperonyl Butoxide: Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these

Carcinogenicity/ Oncogenicity:

observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity:

No information available.

Developmental Toxicity

No information available.

Teratogenicity:

No information available.

STOT - single exposure:

No information available.

STOT - repeated exposure:

No information available.

Chronic toxicity:

Avoid repeated exposure.

Target Organ Effects:

Central nervous system.

12. ECOLOGICAL INFORMATION

Ecotoxicity:**Persistence and degradability**

No information available.

Bioaccumulation

No information available.

| Chemical Name | Partition coefficient; n-Octanol/ Water: |
|----------------------|--|
| Propane 74-98-6 | 2.3 |
| Isobutane 75-28-5 | 2.88 |

Other adverse effects: No information available

Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods**Disposal of wastes:**

Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging:

For more information, see product label.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)**UN/ID Number:**

UN1950

Proper Shipping Name:

Aerosols, flammable

Hazard Class: 2.1

Air (IATA/ ICAO)

UN/ID Number: UN1950
Proper Shipping Name: Aerosols, flammable
Hazard Class: 2.1

Vessel (IMO/ IMDG)

UN/ID Number: UN1950
Proper Shipping Name: Aerosols, flammable
Hazard Class: 2.1

15. REGULATORY INFORMATION

US Federal Regulations
SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | Yes |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Pyrethrins 8003-34-7 | 1 lb | - | - | - |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ): |
|-------------------------|--------------------------|----------------|--|
| Pyrethrins 8003-34-7 | 1 lb | - | RQ 1 lb final RQ RQ 0.454 kg final RQ |

US State Regulations:
California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:**EPA Registration Number:** 1021-1635**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION****Precautionary Statements:**

- Harmful if inhaled.
- Harmful if absorbed through the skin.
- Causes moderate eye irritation.
- Breathing spray mist may be harmful.

International:

| | |
|----------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Complies |

Legend:**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.****Issue Date:**
22-Jun-2017**Revision Date:**
22-Jan-2020**Revision Note:**
- SDS sections updated
- 2
- 3
- 5
- 8
- 14
- 15
- 16

Disclaimer:

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

End of Safety Data Sheet.